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MEASUREMENT REPORT of CORDLESS TELEPHONE

Applicant: CIDMATE International Technology Inc.

Model No. : XG2150xx, XG2151xx

(x could be numbers or alphabets)

EUT : 2.4GHz Analog Cordless Phone

FCC ID : PIZXG21501

Report No. : C5015453

Test by:

Training Research Co., Ltd.

TEL: **886-2-26935155 FAX**: **886-2-26934440** No. 255, Nan-yang Street, Shijr, Taipei Hsien 221, Taiwan, R.O.C.

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CERTIFICATION

We here by verify that:

The test data, data evaluation, test procedures and equipment configurations shown in this report were made mainly in accordance with the procedures given in ANSI C63.4 (1992) as a reference. All tests were conducted by *Training Research Co., Ltd.*, No. 255, Nan-yang Street, Shijr, Taipei Hsien 221, Taiwan, R.O.C. Also, we attest to the accuracy of each.

We further submit that the energy emitted by the sample EUT tested as described in the report is **in compliance with** the technical requirements set forth in the FCC Rules Part 15 Subpart C Section 15.249.

Applicant : CIDMATE International Technology Inc.

Product Name: 2.4Hz Analog Cordless Phone

Model Nane : XG2150xx, XG2151xx

FCC ID : PIZXG21501

Report No. : C5015453

Test Date : March 17, 2003

Prepared by:

IACK TSAL

Approved by

FRANK TSAI

Test by:

Training Research Co., Ltd.

TEL: 886-2-26935155 FAX: 886-2-26934440

No. 255, Nan-yang Street, Shijr, Taipei Hsien 221, Taiwan, R.O.C.

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I. GENERAL

1.1 Introduction

The following measurement report is submitted on behalf of Applicant in support of a Cordless Telephone certification in accordance with Part 2 Subpart J and Part 15 Subpart A and C of the Commission's Rules and Regulations.

1.2 Description of EUT

Applicant : CIDMATE International Technology Inc.

3F-B, No. 58, Sec. 1, Minsheng E. Road, Taipei 104, Taiwan

Product Name : 2.4GHz Analog Cordless Phone

Model Nane : XG2150xx, XG2151xx (x could be number or alphabets)

FCC ID : PIZXG21501

Frequency Range : Base: 2402.55 – 2404.50 MHz

Handset: 2474.00 – 2475.95 MHz

Support Channel: 40 Channel

Power Type : Base powered by adaptor

=> I/P: 120Vac, 60 Hz ; O/P: 9Vdc, 300mA

Handset powered by Ni-Cd Battery

=> 3.6 V, 600 mAh

Power Cord : Cable of power adapter

=> Non-shielded, 190cm long, No bead

Data Cable : RJ-11 x 1

=> Non-shielded, 7' long, Plastic hoods, No bead

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1.3 Description of Support Equipment

In order to construct the minimum testing, following equipment were used as the support units.

PABX : King Design

Model No. : KD8705-A

Serial No. : GV101101186

Power type : 110 VAC 60Hz

Power cord : Non – Shielded, 185cm long

EarphoneMIC. : God Information Inc.

Model No. : Net8 EarphoneMic

Data cable : 118cm long, Non – Shielded

1.4 Configuration of System Under Test

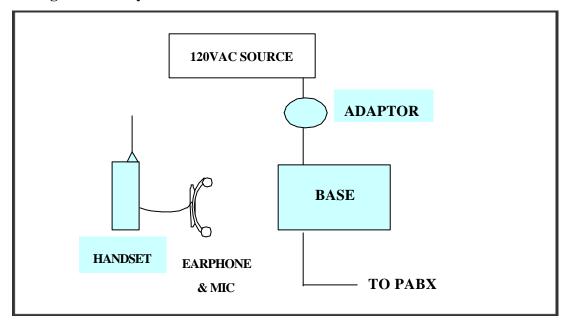


Fig.-1 Configuration of system under test

During testing the EUT was connected to PABX. A diagram of the complete test configuration was shown in Fig-1.

1.5 Test Procedure

All measurements contained in this report were performed mainly according to the techniques described in Measurement procedure ANSI C63.4 (1992).

1.6 Location of the Test Site

The radiated emissions measurements required by the rules were performed on the **three-meter**, **Anechoic Chamber (Registration Number: 93906)** maintained by *Training Research Co., Ltd.* 1F, No. 255, Nan-yang Street, Shijr, Taipei Hsien 221, Taiwan, R.O.C. Complete description and measurement data have been placed on file with the commission. The conducted power line emissions tests and other test items were performed in an anechoic chamber also located at Training Research Co., Ltd. 1F, No. 255, Nan-yang Street, Shijr, Taipei Hsien 221, Taiwan, R.O.C. *Training Research Co., Ltd.* is listed by the FCC as a facility available to do measurement work for others on a contract basis.

1.7 General Test Condition

The conditions under which the EUT operates were varied to determine their effect on the equipment's emission characteristics. The final configuration of the test system and the mode of operation used during these tests was chosen as that which produced the highest emission levels. However, only those conditions which the EUT was considered likely to encounter in normal use were investigated.

In test, the base and handset are tested separately. They were set in Ch01 and Ch40 of EUT and continuously transmitting mode that controlled by test mode of EUT.

II. Conducted Emissions Measurements

2.1 Test Condition & Setup

The power line conducted emission measurements were performed in a shielded enclosure. The EUT was assembled on a wooden table which is 80 centimeters high, was placed 40 centimeters from the backwall and at least 1 meter from the sidewall.

Power was fed to the EUT from the public utility power grid through a line filter and Line Impedance Stabilization Networks (LISNs). The LISN housing, measuring instrumentation case, ground plane, etc., were electrically bonded together at the same RF potential. The Spectrum analyzer was connected to the AC line through an isolation transformer. The 50-ohm output of the LISN was connected to the spectrum analyzer directly. Conducted emission levels were in the CISPR quasi-peak detection mode. The analyzer's 6 dB bandwidth was set to 9 KHz. No post-detector video filter was used.

The spectrum was scanned from 150KHz to 30MHz. The physical arrangement of the test system and associated cabling was varied (within the scope of arrangements likely to be encountered in actual use) to determine the effect on the unit's emanations in amplitude and frequency. All spurious emission frequencies were observed. The highest emission amplitudes relative to the appropriate limit were measured and have been recorded in 2.3.

There is a test condition applies in this test item, the setting up procedure is recorded on <1.4>. Two channels were tested, one in the top (CH01) and the other in bottom (CH40).

2.2 List of Test Instruments

Instrument Name	Model No.	Brand	Serial No.	Last time	Next time
EMI Receiver	8546A	ΗP	3520A00242	06/28/02	06/28/03
RF Filter Section	85460A	ΗP	3448A00217	06/28/02	06/28/03
LISN (EUT)	LISN-01	TRC	9912-03,04	06/04/02	06/04/03
LISN (Support E.)	LISN-01	TRC	9912-05	07/15/02	07/15/03
Auto Switch Box	ASB-01	TRC	9904-01	11/20/02	11/20/03
(< 30MHz)					

The level of confidence of 95%, the uncertainty of measurement of conducted emission is ± 2.02dB.

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2.3 Test Result of Conducted Emissions

The following table shows a summary of the highest emissions of power line conducted emissions on the HOT and NATURAL conductors of the EUT power cord.

Table 1 Power Line Conducted Emissions (Channel 1 of base)

Po	wer Conne	cted I	Emissions		FCC Class B			
Conductor	Frequency	Peak	QP	Average	QP-limit	AVG-limit	Margin	
	(KHz)	(dBmV)	(dBmV)	(dBmV)	(dBmV)	(dBmV)	(dB)	
	201.000	46.42			64.54	54.54	-8.12	
	302.000	32.39			61.66	51.66	-19.27	
	355.000	36.36			60.14	50.14	-13.78	
	401.000	39.28			58.83	48.83	-9.55	
Line 1	452.000	38.96			57.37	47.37	-8.41	
	504.000	34.73			56.00	46.00	-11.27	
	205.000	47.73			64.43	54.43	-6.70	
	302.000	34.36			61.66	51.66	-17.30	
	352.000	36.65			60.23	50.23	-13.58	
	409.000	41.92			58.60	48.60	-6.68	
Line 2	456.000	37.59			57.26	47.26	-9.67	
	504.000	34.84			56.00	46.00	-11.16	

NOTE:

⁽¹⁾ Margin = Amplitude – Limit, *The reading amplitudes are all under limit*.

⁽²⁾ A "+" sign in the margin column means the emission is OVER the Class B Limit and "-" sign of means UNDER the Class B limit

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Table 2 Power Line Conducted Emissions (Channel 40 of base)

Po	wer Conne	FCC Class B					
Conductor	Frequency	Peak	QP	Average	QP-limit	AVG-limit	Margin
	(KHz)	(dBmV)	(dBmV)	(dBmV)	(dBmV)	(dBmV)	(dB)
	208.000	46.89			64.34	54.34	-7.45
	255.000	36.22			63.00	53.00	-16.78
	355.000	36.46			60.14	50.14	-13.68
	405.000	41.55			58.71	48.71	-7.16
Line 1	452.000	35.80			57.37	47.37	-11.57
	509.000	34.94			56.00	46.00	-11.06
	206.000	46.66			64.40	54.40	-7.74
	257.000	34.94			62.94	52.94	-18.00
	352.000	36.63			60.23	50.23	-13.60
	409.000	40.43			58.60	48.60	-8.17
Line 2	461.000	36.01			57.11	47.11	-11.10
	504.000	34.66			56.00	46.00	-11.34

NOTE:

⁽¹⁾Margin = Amplitude – Limit, *The reading amplitudes are all under limit*.

⁽²⁾ A "+" sign in the margin column means the emission is OVER the Class B Limit and "-" sign of means UNDER the Class B limit

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Table 3 Power Line Conducted Emissions (Charging mode)

Po	wer Conne	FC	FCC Class B				
Conductor	Frequency	Peak	QP	Average	QP-limit	AVG-limit	Margin
	(KHz)	(dBmV)	(dBmV)	(dBmV)	(dBmV)	(dBmV)	(dB)
	201.000	46.42			64.54	54.54	-8.12
	302.000	32.39			61.66	51.66	-19.27
	355.000	36.36			60.14	50.14	-13.78
	401.000	39.28			58.83	48.83	-9.55
Line 1	452.000	38.96			57.37	47.37	-8.41
	504.000	34.73			56.00	46.00	-11.27
	205.000	47.73			64.43	54.43	-6.70
	302.000	34.36			61.66	51.66	-17.30
	352.000	36.65			60.23	50.23	-13.58
	409.000	41.92			58.60	48.60	-6.68
Line 2	456.000	37.59			57.26	47.26	-9.67
	504.000	34.84			56.00	46.00	-11.16

NOTE:

⁽³⁾Margin = Amplitude – Limit, *The reading amplitudes are all under limit*.

⁽⁴⁾A "+" sign in the margin column means the emission is OVER the Class B Limit and "-" sign of means UNDER the Class B limit

III. Radiated Emissions Measurements

3.1 Test Condition & Setup

The EUT was placed in an anechoic chamber and scanned at 3 meter distance to determine its emission characteristics. The physical arrangement of the EUT was varied (within the scope of arrangements likely to be encountered in actual use) to determine the effect on the unit's emanations in amplitude, directivity, and frequency. The exact system configuration which produced the highest emissions was noted so it could be reproduced later during the final tests. This was done to ensure that the final measurements would demonstrate the worst-case interference potential of the EUT.

Final radiation measurements were made on a three-meter, anechoic chamber. The EUT system was placed on a nonconductive turntable which is 0.8 meters height, top surface 1.0×1.5 meter.

The spectrum was examined from 30 MHz to 1000 MHz using an Hewlett Packard 85460A EMI Receiver, Schwarzeck whole range Small Biconical antenna (Model No.: BBVU9135) is used to measure frequency from 30 MHz to 1GHz. The final test is used the HP 85460A spectrum and 8564E spectrum was examined from 1GHz to 25GHz using an Hewlett Packard Spectrum Analyzer, EMCO/CMT Horn Antenna (Model 3115 / RA42-K-F-4B-C) for 1G - 25GHz.

At each frequency, the handset of EUT stands on three orthogonal planes respectively and the EUT was rotated 360 degrees. The antenna was raised and lowered from one to four meters to find the maximum emission levels. Measurements were taken using both horizontal and vertical antenna polarization.

Appropriate preamplifiers were used for improving sensitivity and precautions were taken to avoid overloading or desensitizing the spectrum analyzer. There are two spectrum analyzers use on this testing, HP 8546A for frequency 30MHz to 1000MHz, and HP8564E for frequency 1 GHz to 25GHz. No post-detector video filters were used in the test. The spectrum analyzer's 6 dB bandwidth was set to 120KHz (spectrum was examined from 30 MHz to 1000 MHz), the spectrum analyzer's 6 dB bandwidth was set to 1 MHz (spectrum was examined from 1 GHz to 25GHz) and the analyzer was operated in the maximum hold mode.

The actual field intensity in decibels referenced to 1 microvolt per meter (dBì V/m) is determined by algebraically adding the measured reading in dBì V, the antenna factor (dB), and cable loss (dB) at the appropriate frequency.

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For frequency between 30MHz to 1000MHz

FIa $(dBi\ V/m) = FIr\ (dBi\ V) + Correction\ Factors$

FIa : Actual Field Intensity

FIr : Reading of the Field Intensity

Correction Factors = Antenna Factor + Cable Loss

For frequency between 1GHz to 25GHz

FIa (dBi V/m) = FIr (dBi V) + Correction Factor

FIa : Actual Field Intensity

FIr : Reading of the Field Intensity

Correction Factors = Antenna Factor + Cable Loss - Amplifier Gain

3.2 List of Test Instruments

Model No.	Brand	Serial No.	Last time	Next time
8546A	ΗP	3520A00242	06/28/02	06/28/03
85460A	H P	3448A00217	06/28/02	06/28/03
BBVU9135	Schwarzeck	127	05/07/02	05/07/03
UBAA9114				
3488A	HP	N/A	11/20/02	11/20/03
ASB-01	TRC	9904-01	11/20/02	11/20/03
8564E	HP	US36433002	08/01/02	08/01/03
83051A	HP	3232A00347	08/01/02	08/01/03
3115	EMCO	9704 – 5178	08/01/02	08/01/03
RA42-K-F-4B-C	CMT	961505-003	02/01/03	02/01/04
calibrated together	•)		05/20/02	05/20/03
	8546A 85460A BBVU9135 UBAA9114 3488A ASB-01 8564E 83051A 3115 RA42-K-F-4B-C	8546A H P 85460A H P BBVU9135 Schwarzeck UBAA9114 3488A HP ASB-01 TRC 8564E HP 83051A HP 3115 EMCO	8546A H P 3520A00242 85460A H P 3448A00217 BBVU9135 Schwarzeck 127 UBAA9114 HP N/A ASB-01 TRC 9904-01 8564E HP US36433002 83051A HP 3232A00347 3115 EMCO 9704 – 5178 RA42-K-F-4B-C CMT 961505-003	8546A H P 3520A00242 06/28/02 85460A H P 3448A00217 06/28/02 BBVU9135 Schwarzeck 127 05/07/02 UBAA9114 N/A 11/20/02 ASB-01 TRC 9904-01 11/20/02 8564E HP US36433002 08/01/02 83051A HP 3232A00347 08/01/02 3115 EMCO 9704 - 5178 08/01/02 RA42-K-F-4B-C CMT 961505-003 02/01/03

The level of confidence of 95%, the uncertainty of measurement of radiated emission is ± 3.44 dB.

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3.3 Test Result of Radiated Emissions

The peak values of fundamental emissions from the EUT at various antenna heights, antenna polarization, EUT orientation, etc. are recorded on the following.

Testing room: Temperature: 21.6 ° C Humidity: 53.4 % RH

Table 4 Fundamental Emissions

Channel	Frequency (MHz)	A. P. (H/V)	A.H. (m)	Table (degree)	Peak (dBì V/m)	Limit (dBì V)	Margin (dBì V)
Base 1	2402.55	Н	1.00	89	80.18	94.00	-13.82
Dase 1	2402.55	V	1.00	172	81.18	94.00	-12.82
Base 40	2404.50	Н	1.00	111	79.02	94.00	-14.98
Dase 40		V	1.00	288	81.02	94.00	-12.98
Handaat 1	2474.00	Н	1.00	207	81.08	94.00	-12.92
Handset 1	2474.00	V	1.00	11	69.08	94.00	-24.92
Handset 40	2475.05	Н	1.00	264	80.42	94.00	-13.58
	2475.95	V	1.00	144	69.09	94.00	-24.91

- 1. A. P. means antenna polarization, horizontal and vertical.
- 2. A. H. means antenna height.
- 3. Table means turntable turning position.
- 4. Amplitude means the fundamental emission measured.
- 5. Margin = Amplitude limit

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3.4 Test Result of Spurious Radiated Emissions

The highest peak values of radiated emissions form the EUT at various antenna heights, antenna polarization, EUT orientation, etc. are recorded on the following.

Testing room: Temperature: 21.6 ° C Humidity: 53.4 % RH

Table 5 Radiated Emissions for 30MHz to 1GHz [Base Channel 01, Ant. Horizontal]

	Radiate Emissi			Correction Factors	Corrected Amplitude	FCC C	Class B M)
Frequency (MHz)	Amplitude (dBì V)	Ant. H. (m)	Table (°)	(dB)	(dBì V/m)	Limit (dBì V/m)	Margin (dB)
800.85	29.45	1.00	45	13.76	43.21	46.00	-2.79
828.24	26.10	1.00	23	14.68	40.78	46.00	-5.22

Table 6 Radiated Emissions for 30MHz to 1GHz [Base Channel 01, Ant. Vertical]

	Radiate Emissi			Correction Factors	Corrected Amplitude	FCC C	Class B M)
Frequency (MHz)	Amplitude (dBì V)	Ant. H. (m)	Table (°)	(dB)	(dBì V/m)	Limit (dBì V/m)	Margin (dB)
800.85	26.30	1.60	85	13.76	40.06	46.00	-5.94
828.23	25.42	1.00	57	14.68	40.10	46.00	-5.90

- 1. Margin = Corrected Limit.
- 2. Peak Amplitude + Correction Factors = Corrected

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Table 7 Radiated Emissions for 1GHz to 25GHz [Base Channel 01, Ant. Horizontal]

Radiated Emission			Correction Factors	Corrected Amplitude	FCC Cl		
Frequency (MHz)	Amplitude (dB \mu V)	Ant. H. (m)	Table	(dB)	(dB \(\psi \)V/m)	Limit (dB \mu V/m)	Margin (dB)
1603.12	44.33	1.00	98	3.28	47.61	53.96	-6.35
							-

Table 8 Radiated Emissions for 1GHz to 25GHz [Base Channel 01, Ant. Vertical]

Radiated Emission				Correction Factors	Corrected Amplitude	FCC Cl	
Frequency (MHz)	Amplitude (dB \mu V)	Ant. H. (m)	Table	(dB)	(dB \(\psi \)V/m)	Limit (dB \mu V/m)	Margin (dB)
1602.08	45.17	1.00	90	3.28	48.45	53.96	-5.51
2485.42	45.00	1.00	148	3.45	48.45	53.96	-5.51

- 1. Margin = Corrected Limit.
- 2. Peak Amplitude + Correction Factor = Corrected

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Table 9 Radiated Emissions for 30MHz to 1GHz [Base Channel 40, Ant. Horizontal]

	Radiate Emissi			Correction Factors	Corrected Amplitude	FCC C	Class B M)
Frequency (MHz)	Amplitude (dBì V)	Ant. H. (m)	Table (°)	(dB)	(dBì V/m)	Limit (dBì V/m)	Margin (dB)
801.50	30.09	1.00	42	13.78	43.87	46.00	-2.13
828.88	26.26	1.00	51	14.70	40.96	46.00	-5.04

Table 10 Radiated Emissions for 30MHz to 1GHz [Base Channel 40, Ant. Vertical]

	Radiate Emissi			Correction Factors	Corrected Amplitude	FCC C	
Frequency (MHz)	Amplitude (dBì V)	Ant. H. (m)	Table (°)	(dB)	(dBì V/m)	Limit (dBì V/m)	Margin (dB)
801.50	29.28	1.00	328	13.78	43.06	46.00	-2.94
828.88	25.61	1.00	309	14.70	40.31	46.00	-5.69

- 1. Margin = Corrected Limit.
- 2. Peak Amplitude + Correction Factors = Corrected

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Table 11 Radiated Emissions for 1GHz to 25GHz [Base Channel 40, Ant. Horizontal]

Radiated Emission			Correction Factors	Corrected Amplitude	FCC C		
Frequency (MHz)	Amplitude (dB \mu V)	Ant. H.	Table	(dB)	(dB \(\pu \) V/m)	Limit (dB \mu V/m)	Margin (dB)
1604.17	44.34	1.00	127	3.27	47.61	53.96	-6.35

Table 12 Radiated Emissions for 1GHz to 25GHz [Base Channel 40, Ant. Vertical]

Radiated Emission			Correction Factors	Corrected Amplitude	FCC Cl		
Frequency (MHz)	Amplitude (dB \mu V)	Ant. H. (m)	Table	(dB)	(dB \(\psi \)V/m)	Limit (dB \mu V/m)	Margin (dB)
1604.17	44.84	1.00	155	3.27	48.11	53.96	-5.85

- 1. Margin = Corrected Limit.
- 2. Peak Amplitude + Correction Factor = Corrected

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Table 13 Radiated Emissions for 30MHz to 1GHz [Handset Ch1 Z-axis, Ant. Horizontal]

	Radiate Emissi			Correction Factors	Corrected Amplitude	FCC C	Class B M)
Frequency (MHz)	Amplitude (dBì V)	Ant. H. (m)	Table (°)	(dB)	(dBì V/m)	Limit (dBì V/m)	Margin (dB)
797.28	26.82	1.00	312	13.68	40.50	46.00	-5.50
824.67	25.20	1.00	135	14.56	39.76	46.00	-6.24

Table 14 Radiated Emissions for 30MHz to 1GHz [Handset Ch 1 Y-axis, Ant. Vertical]

	Radiate Emissi			Correction Factors	Corrected Amplitude	FCC C	
Frequency (MHz)	Amplitude (dBì V)	Ant. H. (m)	Table (°)	(dB)	(dBì V/m)	Limit (dBì V/m)	Margin (dB)
797.29	20.82	1.00	315	13.68	34.50	46.00	-11.50
824.67	21.57	1.00	218	14.56	36.13	46.00	-9.87
							_

- 1. Margin = Corrected Limit.
- 2. Peak Amplitude + Correction Factors = Corrected

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Table 15 Radiated Emissions for 1GHz to 25GHz [Handset Ch 1, Ant. Horizontal]

Radiated Emission			Correction Factors	Corrected Amplitude	FCC C		
Frequency (MHz)	Amplitude (dB \mu V)	Ant. H. (m)	Table	(dB)	(dB \(\mu \)V/m)	Limit (dB \mu V/m)	Margin (dB)

Table 16 Radiated Emissions for 1GHz to 25GHz [Handset Channel 01, Ant. Vertical]

	Radiated Emission			Correction Factors	Corrected Amplitude	FCC Cl	
Frequency (MHz)	Amplitude (dB \mu V)	Ant. H. (m)	Table	(dB)	(dB \(\pu \) V/m)	Limit (dB \(\mu\)V/m)	Margin (dB)

- 1. Margin = Corrected Limit.
- 2. Peak Amplitude + Correction Factor = Corrected
- 3. The emissions are less than 20dB, there are no data can be recorded.

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Table 17 Radiated Emissions for 30MHz to 1GHz [Handset Ch 40 Z-axis, Ant. Horizontal]

	Radiate Emissi			Correction Factors	Corrected Amplitude	FCC C	
Frequency (MHz)	Amplitude (dBì V)	Ant. H. (m)	Table (°)	(dB)	(dBì V/m)	Limit (dBì V/m)	Margin (dB)
797.93	28.77	1.00	324	13.69	42.46	46.00	-3.54
825.32	26.51	1.00	136	14.58	41.09	46.00	-4.91

Table 18 Radiated Emissions for 30MHz to 1GHz [Handset Ch 40 Y-axis, Ant. Vertical]

	Radiate Emissi			Correction Factors	Corrected Amplitude	FCC C	Class B M)
Frequency (MHz)	Amplitude (dBì V)	Ant. H. (m)	Table (°)	(dB)	(dBì V/m)	Limit (dBì V/m)	Margin (dB)
797.93	26.04	1.00	145	13.69	39.73	46.00	-6.27
825.32	23.31	1.00	249	14.58	37.89	46.00	-8.11
						_	

- 1. Margin = Corrected Limit.
- 2. Peak Amplitude + Correction Factors = Corrected

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Table 19 Radiated Emissions for 1GHz to 25GHz [Handset Ch 40 X-axis, Ant. Horizontal]

Radiated Emission			Correction Factors	Corrected Amplitude	FCC Cl		
Frequency (MHz)	Amplitude (dB \mu V)	Ant. H. (m)	Table	(dB)	(dB \(\pu \) V/m)	Limit (dB \mu V/m)	Margin (dB)
2393.75	45.83	1.00	244	3.15	48.98	53.96	-4.98

Table 20 Radiated Emissions for 1GHz to 25GHz [Handset Ch 40 Y-axis, Ant. Vertical]

Radiated Emission			Correction Factors	Corrected Amplitude	FCC Cl		
Frequency (MHz)	Amplitude (dB \mu V)	Ant. H. (m)	Table	(dB)	$(dB \mu V/m)$	Limit (dB \mu V/m)	Margin (dB)
2393.75	45.33	1.00	285	3.15	48.48	53.96	-5.48

- 1. Margin = Corrected Limit.
- 2. Peak Amplitude + Correction Factor = Corrected

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. Verify Frequencies and Channels

This is for sure that all frequencies are in 2402MHz to 2476MHz that verifies the frequency as follow

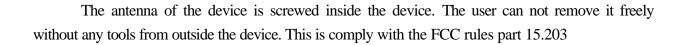
Table 21 Verify the Frequency Pairs

Channel	Handset (MHz)	Base (MHz)	Channel	Handset (MHz)	Base (MHz)
1	2474.00	2402.55	21	2475.00	2403.55
2	2474.05	2402.60	22	2475.05	2403.60
3	2474.10	2402.65	23	2475.10	2403.65
4	2474.15	2402.70	24	2475.15	2403.70
5	2474.20	2402.75	25	2475.20	2403.75
6	2474.25	2402.80	26	2475.25	2403.80
7	2474.30	2402.85	27	2475.30	2403.85
8	2474.35	2402.90	28	2475.35	2403.90
9	2474.40	2402.95	29	2475.40	2403.95
10	2474.45	2403.00	30	2475.45	2404.00
11	2474.50	2403.05	31	2475.50	2404.05
12	2474.55	2403.10	32	2475.55	2404.10
13	2474.60	2403.15	33	2475.60	2404.15
14	2474.65	2403.20	34	2475.65	2404.20
15	2474.70	2403.25	35	2475.70	2404.25
16	2474.75	2403.30	36	2475.75	2404.30
17	2474.80	2403.35	37	2475.80	2404.35
18	2474.85	2403.40	38	2475.85	2404.40
19	2474.90	2403.45	39	2475.90	2404.45
20	2474.95	2403.50	40	2475.95	2404.50

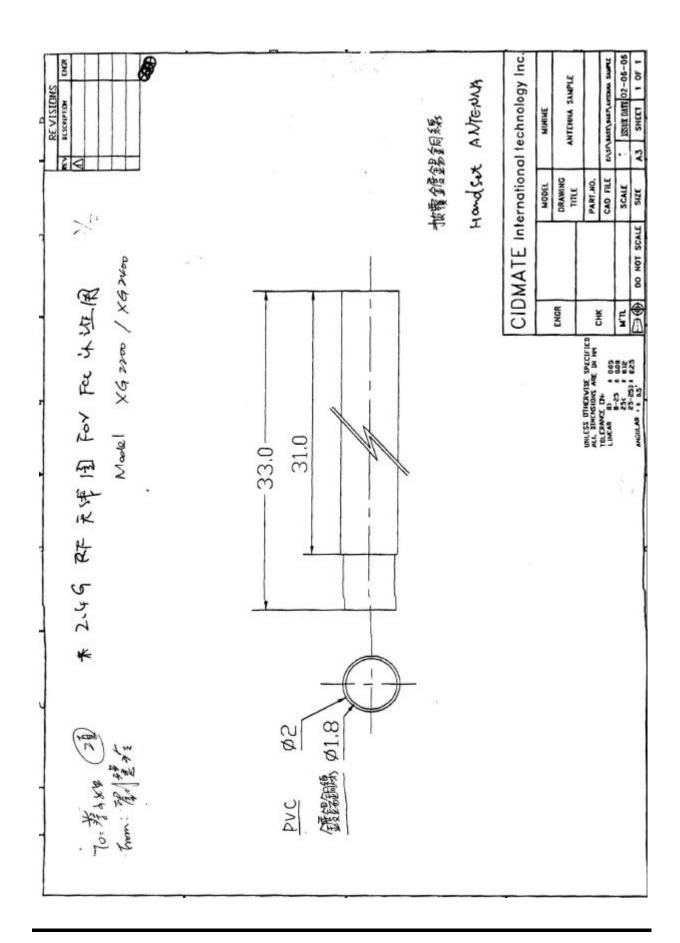
Section 15.214(d) The security code is set automatic:

Every time when you place the handset in the base, your cordless will randomly select over one million possible security codes.

Appendix A

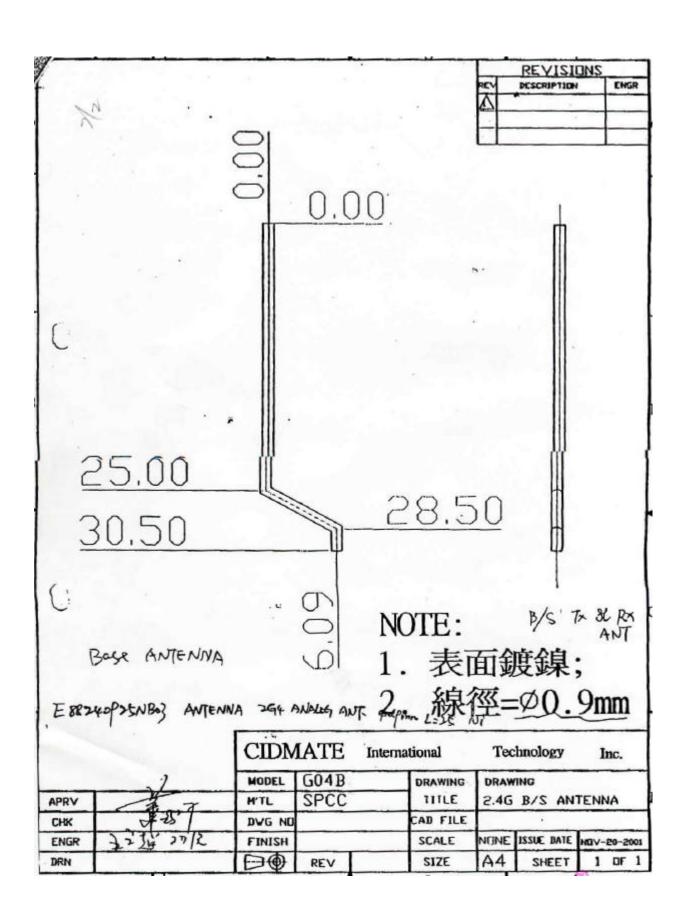


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Report No.: C5015453, 2.4GHz Analog Cordless Phone, FCC Part 15 Class B Training Research Co., Ltd. TEL:886-2-26935155, Fax:886-2-26934440

Test Report ----- 26/28



Report No.: C5015453, 2.4GHz Analog Cordless Phone, FCC Part 15 Class B Training Research Co., Ltd. TEL:886-2-26935155, Fax:886-2-26934440

Appendix B

§ 15.245 (b)(3) Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50dB below the level of the fundamental or to the general radiated emission limits in §15.209, whichever is the lesser attenuation.

See as next page.

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Base Channel 1

Frequency (MHz)	Antenna Polarity	Peak Amplitude (dB \(\psi \)V/m)	Limit (dB µ V/m)	Margin (dB)
2372.71	Horizontal	38.41	53.96	-15.55
2390.00	Horizontal	35.80	53.96	-18.16
2372.73	Vertical	38.74	53.96	-15.22
2390.00	Vertical	36.13	53.96	-17.83

Handset Channel 40

Frequency (MHz)	Antenna Polarity	Peak Amplitude $(dB \mid V/m)$	Limit $(dB \mid V/m)$	Margin (dB)
2483.51	Horizontal	36.61	53.96	-17.35
2486.31	Horizontal	38.79	53.96	-15.17
2500.06	Horizontal	37.17	53.96	-16.79
2483.51	Vertical	37.61	53.96	-16.35
2495.21	Vertical	38.47	53.96	-15.49
2500.06	Vertical	36.67	53.96	-17.29